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NOTIFICATION CONCERNING
TRANSMITTAL OF COPY OF INTERNATIONAL
PRELIMINARY REPORT ON PATENTABILITY
(CHAPTER I OF THE PATENT COOPERATION
TREATY)

(PCT Rule 44bis.1(c))

To:

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Date of mailing (*day/month/year*)
23 February 2006 (23.02.2006)

Applicant's or agent's file reference
08898491WO

IMPORTANT NOTICE

International application No.
PCT/CA2004/001474

International filing date (*day/month/year*)
16 August 2004 (16.08.2004)

Priority date (*day/month/year*)
13 August 2003 (13.08.2003)

Applicant

CEAPRO INC. et al

The International Bureau transmits herewith a copy of the international preliminary report on patentability (Chapter I of the Patent Cooperation Treaty)

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The International Bureau of WIPO
34, chemin des Colombettes
1211 Geneva 20, Switzerland

Authorized officer

Athina Nickitas-Etienne

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference 08898491WO	FOR FURTHER ACTION	See item 4 below
International application No. PCT/CA2004/001474	International filing date (<i>day/month/year</i>) 16 August 2004 (16.08.2004)	Priority date (<i>day/month/year</i>) 13 August 2003 (13.08.2003)
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237		
Applicant CEAPRO INC.		

1. This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis.1(a).

2. This REPORT consists of a total of 9 sheets, including this cover sheet.

In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.

3. This report contains indications relating to the following items:

- | | |
|--|---|
| <input checked="" type="checkbox"/> Box No. I | Basis of the report |
| <input checked="" type="checkbox"/> Box No. II | Priority |
| <input checked="" type="checkbox"/> Box No. III | Non-establishment of opinion with regard to novelty, inventive step and industrial applicability |
| <input type="checkbox"/> Box No. IV | Lack of unity of invention |
| <input checked="" type="checkbox"/> Box No. V | Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement |
| <input type="checkbox"/> Box No. VI | Certain documents cited |
| <input checked="" type="checkbox"/> Box No. VII | Certain defects in the international application |
| <input checked="" type="checkbox"/> Box No. VIII | Certain observations on the international application |

4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44bis .2).

	Date of issuance of this report 13 February 2006 (13.02.2006)
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer Athina Nickitas-Etienne
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Form PCT/IB/373 (January 2004)

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PATENT COOPERATION TREATY

REC'D 08 DEC 2004

From the INTERNATIONAL SEARCHING AUTHORITY

To:
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 c/o Gowling Lafleur Henderson LLP
 2600 - 160 Elgin Street
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WIPO

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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

Date of mailing (date/month/year) 03 December 2004 (03-12-2004)

Applicant's or agent's file reference
 08898491WO

FOR FURTHER ACTION
 See paragraph 2 below

International application no
PCT/CA2004/001474

International filing date (date/month/year)
 16 August 2004 (16-08-2004)

Priority date (date/month/year)
 13 August 2003 (13-08-2003)

International Patent Classification (IPC)
 Primary: G01N 33/66
 Cross references: G01N 33/02, G01N 33/48, G01N 33/74

Applicant **CEAPRO INC. ET AL**

1. This opinion contains indications relating to the following items :

- | | | |
|-------------------------------------|--------------|--|
| <input checked="" type="checkbox"/> | Box No. I | Basis of the opinion |
| <input checked="" type="checkbox"/> | Box No. II | Priority |
| <input checked="" type="checkbox"/> | Box No. III | Non-establishment of opinion with regard to novelty, inventive step and industrial applicability |
| <input type="checkbox"/> | Box No. IV | Lack of unity of invention |
| <input checked="" type="checkbox"/> | Box No. V | Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement |
| <input type="checkbox"/> | Box No. VI | Certain documents cited |
| <input checked="" type="checkbox"/> | Box No. VII | Certain defects in the international application |
| <input checked="" type="checkbox"/> | Box No. VIII | Certain observations on the international application |

2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/
 Commissioner of Patents
 Canadian Patent Office
 Box PCT, Ottawa/Gatineau K1A 0C9

Authorized officer

David Boudreau
 (819) 997-2926

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**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.
PCT/CA2004/001474

Box No. I

Basis of this opinion

1. With regard to the language, this opinion has been established on the basis of the international application in the language which it was filed, unless otherwise indicated under this item.

- ☐ This opinion has been established on the basis of a translation from the original language into the following language __, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).

2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of :

a. type of material

- ☐ a sequence listing
☐ table(s) related to the sequence listing

b. format of material

- ☐ in written format
☐ in computer readable form

c. time of filing/furnishing

- ☐ contained in the international application as filed.
☐ filed together with the international application in computer readable form.
☐ furnished subsequently to this Authority for the purposes of search.

3. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

4. Additional comments :

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**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.
PCT/CA2004/001474

Box No. II Priority

1 ☒ The following document has not yet been furnished :

☒ copy of the earlier application whose priority has been claimed (Rule 43*bis*.1 and 66.7(a)).

☐ translation of the earlier application whose priority has been claimed (rule 43*bis*.1 and 66.7(b)).

Consequently it has not been possible to consider the validity of the priority claim. This opinion has nevertheless been established on the assumption that the relevant date is the claimed priority date.

2 ☐ This opinion has been established as if no priority had been claimed due to the fact that the priority claim has been found invalid (Rules 43*bis*.1 and 64.1). Thus for the purpose of this opinion, the international filing date indicated above is considered to be the relevant date.

3. Additional observations, if necessary :

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WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/CA2004/001474

Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially applicable have not been examined in respect of :

☐ the entire international application

☒ claim No. 24

because

☒ Claim 24 relates to the following subject matter which does not require an international preliminary examination (*specify*) :

The subject matter of claim 24 was not searched since it refers to excluded subject matter under article 17.2 (a)(i) and rule 39(i) and (v). A method of calculating an average, as disclosed in claim 24, refers to a mere presentation of information and a mathematical concept.

☐ the description, claims or drawings (*indicate particular elements below*) or said claims Nos. ____ are so unclear that no meaningful opinion could be formed (*specify*) :

☐ the claims, or said claims Nos. ____ are so inadequately supported by the description that no meaningful

☐ no international search report has been established for said claims Nos. ____.

☐ the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in Annex C of the Administrative Instructions in that :

the written form

☐ has not been furnished

☐ does not comply with the standard

the computer readable form

☐ has not been furnished

☐ does not comply with the standard

☐ the tables related to the nucleotide and/or amino acid sequence listing, if in computer readable form only, do not comply with the technical requirements provided for in Annex C-bis of the Administrative Instructions.

☐ See Supplemental Box for further details.

**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.
PCT/CA2004/001474

Box No. IV Lack of unity of invention

- 1 ☐ In response to the invitation (Form PCT/ISA/206) to pay additional fees the applicant has :
- ☐ paid additional fees
- ☐ paid additional fees under protest
- ☐ not paid additional fees
- 2 ☐ This Authority found that the requirement of unity of invention is not complied with and chose not to invite the applicant to pay additional fees.
- 3 This Authority considers that the requirement of unity of invention in accordance with Rule 13.1, 13.2 and 13.3 is
- ☐ complied with
- ☐ not complied with for the following reasons :

- 4 Consequently, this opinion has been established in respect of the following parts of the international application :
- ☐ all parts
- ☐ the parts relating to claims Nos. ____

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**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.
PCT/CA2004/001474

Box No. V reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

A. Novelty (N)	Claims	1-23	YES
	Claims	NA	NO
B. Inventive step (IS)	Claims	1-23	YES
	Claims	NA	NO
C. Industrial applicability (IA)	Claims	1-14, and 21-22	YES
	Claims	15-20, and 23	NO

2. Citations and explanations :

D1: WO9702050

D2: Jenkins et al. (2002). *Eur. J. Clin. Nutr.* 56(7): 622-628.

A. Novelty

The subject matter of the alleged invention differs from the closest prior art (D1), in that the diagnostic test meal of the present invention contains a low soluble fibre content (less than 0.5 wt. %), whereas D1's diagnostic test meal contains about 1.5 wt. % of soluble fibre. Therefore, the claims on file comply with article 33.2 of the *Patent Cooperation Treaty (PCT)*.

B. Inventive step

Claim 1, which is novel, is also non-obvious. The closest prior art (D2) relating with soluble fibre and glucose absorption, would not lead a skilled person in the art to design a diagnostic test meal containing less than 0.5 w.t % of soluble fibre. Therefore, the claims on file comply with article 33.3 of the *Patent Cooperation Treaty (PCT)*.

C. Industrial applicability

Claims 15-20 and 23 do not have an industrial applicability as defined under article 33.4 of the *Patent Cooperation Treaty (PCT)*. Although both claims specified utility by indicating how useful the methods may diagnose a given disorder, they both failed to indicate how the diagnosing step would be performed. The dependent claims 16-20, which depend on claim 15, do not add an industrial applicability.

Box No. VII Certain defects in the international application

The following defects in the form or contents of the international application have been noted :

Claim defects

Claim 1 does not comply with article 6 of the *Patent Cooperation Treaty (PCT)*. An independent claim should clearly specify all the essential features needed to define the invention. It appears that the following feature (below), indicated in the description, would be essential to the performance of the alleged invention. This feature should be incorporated in the above claim.

"[The diagnostic test meal provides] a selected quantity of glycemic carbohydrate ..."
(page 19, lines 1-4).

The claims on file lack clarity (article 6 of the *Patent Cooperation Treaty*) and are inconsistent (rule 10.2 of the *Regulations under the PCT*).

- From the wording of the claims 4, 8 and 9, it is understood that mono- and disaccharides would not represent glycemic carbohydrates, since the prefix "glycemic" is not utilized. However, from the reading of the description, the expression "glycemic carbohydrate" is defined as glucose or a complex carbohydrate, which can be metabolized or reduced to glucose. Both glucose (monosaccharide) and sucrose (disaccharide) contain glucose, and could therefore be associated to the expression "glycemic carbohydrate". Hence, the expression "glycemic carbohydrate" is unclear.
- Claims 1 and 14 refer to the term "polysaccharide", which is inconsistent with claims 4 and 11, which refer to the expression "glycemic polysaccharide".

Claims 15 and 23 do not comply with article 6 of the *Patent Cooperation Treaty (PCT)*. The above claims are incomplete and are silent on essential features needed to define the invention.

- Claim 15 refers to a method of diagnosing a disorder of carbohydrate metabolism in a vertebrate subject. Claim 15 is incomplete being silent on how the diagnosing step is performed and fails to provide at which time the blood sample is taken for the glucose concentration measurement.
- Claim 23 refers to a method of diabetes self-diagnosis and self-monitoring in a vertebrate subject. Claim 23 is incomplete being silent on the comparison step (comparing the obtain glucose concentration with a reference value), and how the diagnosing and monitoring steps are performed. Claim 23 also fails to provide when the blood sample is taken after ingestion, for glucose concentration measurement.

Claims 11 and 15 do not comply with article 6 of the *Patent Cooperation Treaty (PCT)*. The following expressions have no antecedent, which render the scope of the claims unclear:

"glycemic polysaccharide" (claim 11, lines 7-8), when dependent on claims 1-3;
"biological sample" (claim 15, line 29), when dependent on claims 1-14.

Note to the applicant:

The expression "biological sample" (claim 16, line 33) have already been defined in claim 15, and should therefore be referred to using a definite article to avoid double inclusion.

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**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.
PCT/CA2004/001474

Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made :

Description defects

The description encompasses a discrepancy and does not comply with article 5 of the *Patent Cooperation Treaty (PCT)*. The reference "Haber et al." (page 4, line 32) is not clearly identified in such a manner that the document could be easily retrieved.

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